



New Hampshire Institute for Local Public Health Practice **at the Manchester Health Department**

Basic Epidemiology and Outbreak Investigations

Training time: 2 hours

Epidemiology is considered the science of public health. This training program will provide an overview of the basic principles of epidemiology related public health practice. Topics will include the foundation of the epidemiological approach, the difference between descriptive and analytical epidemiology, and models of disease causation. Steps of an epidemiologic investigation utilized to explore disease related states or events will also be explored.

This training addresses the following Domain-Levels related to the Core Competencies for all Public Health Workers as defined by the Council on Linkages Between Academia and Public Health Practice:

- ✓ *Analytic/Assessment Skills*
- ✓ *Basic Public Health Sciences Skills*

Disease Surveillance: Is that Reportable?

Training time: 2 hours

Disease surveillance is defined as the ongoing, systematic collection, analysis and interpretation of health-related data essential to the planning, implementation, and evaluation of public health practice. Surveillance is essential to disease control and prevention efforts. This training program will detail various types of surveillance systems that are utilized on the state and local level that are an integral component for investigation, control, and prevention of health related events within New Hampshire. Topics will include notifiable disease reporting policies and procedures, and key registries and surveys employed in New Hampshire.

This training addresses the following Domain-Levels related to the Core Competencies for all Public Health Workers as defined by the Council on Linkages Between Academia and Public Health Practice:

- ✓ *Analytic/Assessment Skills*
- ✓ *Community Dimensions of Practice Skills*

Emerging and Reemerging Diseases of Concern in New Hampshire

Training time: 2 hours

“Pathogenic microbes can be resilient, dangerous foes. Although it is impossible to predict their individual emergence in time and place, we can be confident that new microbial diseases will emerge.” – Institute of Medicine, 1992

This training program will begin with an overview of the Center for Disease Control and Prevention’s strategy for preventing the emergence of infectious diseases in the 21st Century. We will then highlight current diseases of concern within New Hampshire. Presentation content will vary depending on the current disease-specific concerns within the State. Potential topics of concern include Pertussis, Avian Influenza, Eastern Equine Encephalitis or Varicella. We will also explore chronic diseases of concern and associated risk factors, such as cardiovascular disease and obesity. Disease-specific etiology, epidemiologic features, and control and prevention strategies will be explored.

This training addresses the following Domain-Levels related to the Core Competencies for all Public Health Workers as defined by the Council on Linkages Between Academia and Public Health Practice:

- ✓ *Analytic/Assessment Skills*
- ✓ *Basic Public Health Sciences Skills*

In addition, this training also achieves the following Bioterrorism and Emergency Readiness Competencies as defined by the Columbia University School of Nursing for Health Policy:

- ✓ *Recognize unusual events that might indicate an emergency and describe appropriate action.*

Local Public Health Preparedness and Response to Biological Hazards

Training time: 2 hours

This training program will provide an introduction to the basic principles of emergency preparedness and response at the local level related to biological hazards. Topics discussed will include the three categories of critical biological agents identified by the Centers for Disease Control and Prevention, a review of the main concepts of disease transmission, and the role of public health professionals and healthcare providers in response to a biological event and emergency planning efforts.

In addition, this training also achieves the following Bioterrorism and Emergency Readiness Competencies as defined by the Columbia University School of Nursing for Health Policy:

- ✓ *Describe the public health role in emergency response in a range of emergencies that might arise.*
- ✓ *Identify and locate the agency emergency response plan.*
- ✓ *Identify limits to own knowledge, skills and authority, and identify key systems for referring matters that exceed these limits.*

Introduction to Influenza Pandemic Planning (formerly Influenza Surge Capacity Planning)
Training time: 2 hours

With the current spread of AI H5N1 and expert predictions of an impending influenza pandemic, preparedness planning specific to pandemic influenza has become an essential function of comprehensive emergency planning efforts. This training program will provide an overview of the distinction between influenza, avian influenza, and pandemic influenza, including an overview of basic epidemiological characteristics. In addition, this training program will also provide an update of the most current status of events related to the global spread of AI H5N1, and the projected impact of a pandemic in the United States in relation to the importance for planning will also be explored. The training program will conclude with key elements for healthcare system preparedness related to the basic concepts of surge capacity planning, and an overview of the role public health professionals play in facilitating community strategies for preparedness.

This training addresses the following Domain-Levels related to the Core Competencies for all Public Health Workers as defined by the Council on Linkages Between Academia and Public Health Practice:

- ✓ *Policy Development/Program Planning Skills*
- ✓ *Community Dimensions of Practice Skills*
- ✓ *Leadership and Systems Thinking Skills*

In addition, this training also achieves the following Bioterrorism and Emergency Readiness Competencies as defined by the Columbia University School of Nursing for Health Policy:

- ✓ *Maintain regular communication and agreements with emergency response partners.*
- ✓ *Ensure that the agency has a written, updated and available plan for major categories of emergencies.*
- ✓ *Identify specific resources needed for response to critical biologic agents.*

All training programs offered by the New Hampshire Institute for Local Public Health Practice are provided through a collaboration between the City of Manchester Department of Health, and the New Hampshire Department of Health and Human Services, Office of Community and Public Health